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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,229 11/12/2003		Andrew L. Van Brocklin	200309795-1	8482
22879 75	590 08/04/2006	EXAMINER		
	ACKARD COMPAN	DHARIA, PRABODH M		
P O BOX 272400, 3404 E. HARMONY ROAD INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400			ART UNIT	PAPER NUMBER
			2629	

DATE MAILED: 08/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Diffice Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address				Application No.		Applicant(s)			
Prabodh M. Dharia 2629 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (9) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will apply and till apply and till provisions. - If NO period for reply is specified above, the maximum statutory period will apply and till apply and till provisions. - If NO period for reply is specified above, the maximum statutory period will apply and till provision. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply is specified above, the maximum statutory period will apply and till apply to be timely filed. - If NO period for reply the filed on 10 July 2006. - If NO period for reply reply the filed on 10 July 2006. - If NO period for reply the filed on 10 July 2006. - If NO period for reply reply and the period filed on 10 July 2006. - If NO period for reply reply and the period filed on 10 July 2006. - If NO period filed	Office Action Summary		10/712,22	<u>?</u> 9	VAN BROCKLIN ET AL.				
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 a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date	1) Notice o 2) Notice o 3) Informat	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- ation Disclosure Statement(s) (PTO-1449 or PTO		Paper No(s) 5) Notice of In)/Mail Date formal Patent Application (P1	ГО-152)			

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1. Status: Please all the replies and correspondence should be addressed to examiner's new art unit 2629. Receipt is acknowledged of papers submitted on 07-10-2006 under election of Group I (Claims 1-13) without traverse, which have been placed of record in the file. Claims 1-13 are pending in this action. Claims 14-44 are withdrawn from consideration.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3,12,13 are rejected under 35 U.S.C. 102(e) as being anticipated by Matthies et al. (US 2005/0078104 A1).

Regarding Claim 1, Mathis et al. teaches a large area display (page 1, paragraph 2, page 3, paragraph 75, page 4, paragraphs 75,76, 78, 80, page 8, paragraph 116,120, page 9, paragraph 121,122) comprising: a pixel layer including display elements (page 3,4, paragraph 75); a connection layer (page 4, paragraph 76, Lines 1-11 paragraph 78); drivers in communication with the pixel layer and the connection layer (page 4, paragraph 78), the drivers configured for driving the display elements in the pixel layer and configured for communicating through the connection layer (page 4, paragraph 78, paragraph 80, Lines 1-10); and a laminate formed (page 8, paragraphs 120, Lines 10-13) of the pixel layer, the connection layer and drivers (page 8,

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paragraphs 116, 120, pages 8,9, paragraph 121) comprising the large area display (page 3, paragraph 71, Lines 1-5).

Regarding Claim 2, Mathis et al. teaches the drivers are laminated between the pixel layer and the connection layer (item # 510,512,514, 516, 520,522,524, see figure 5, pages 8,9, paragraphs 120,121).

Regarding Claim 3, Mathis et al. teaches the display elements comprises at least one of liquid crystal display (LCD), light emitting diode (LED), organic LED (OLED), polymer light emitting device (PLED), electroluminescent (EL), electrophoretic display, electrochromic display, electrowetting, gas plasma and fiber plasma (page 3, paragraph 70).

Regarding Claim 12, Mathis et al. teaches the drivers further comprise: serial data input for receiving display data (see figures 6,12, page 11, paragraph 140, Lines 13-16 a single line receiving serial data to each tile of display); and serial data output (page 11, paragraph 139, Lines 11-23, receive pixel data stored in the memory and outputted serially on a single line) for sensing and testing (pages 6, paragraphs 102, 103, page 7, paragraphs 103-108) and the connection layer comprises a first conductive layer for providing power and ground connections to driver electronics (page 9, paragraph 122, page 11, paragraph 139, Lines 11-14, paragraph 140, Lines 13-16).

Regarding Claim 13, Mathis et al. teaches an input/output (I/O) connector in communication with the connection layer configured for external communication (see figure 12, page 9, paragraphs 122).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4-8 and 10, are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthies et al. (US 2005/0078104 A1) as applied to claims 1-3,12,13 above, and further in view of Salerno et al. (5,396,304).

Regarding Claim 4,5,6,7,8,10, Mathis et al. further teaches a large area display (page 1, paragraph 2, page 3, paragraph 75, page 4, paragraphs 75,76, 78, 80, page 8, paragraph 116,120, page 9, paragraph 121,122); the connection layer comprises a first conductive layer for providing power and ground connections to driver electronics (page 9, paragraph 122) and large area liquid crystal display (LCD, page 3, paragraph 70, Lines 5-11).

However, Mathis et al. fails to recite and disclose the pixel layer comprises an active matrix display; the pixel layer comprises a passive matrix display; the pixel layer comprises at least one transistor per pixel; each of the at least one transistors comprises a thin film transistor

(TFT); the drivers comprise complementary metal on semiconductor (CMOS) circuitry on silicon or glass substrates.

Page 5

Salerno et al. teaches the pixel layer comprises an active matrix display (Col. 48, Lines 6-9); the pixel layer comprises a passive matrix display (Col. 48, Lines 9-12); the pixel layer comprises at least one transistor per pixel (Col. 15, Lines 31,32); each of the at least one transistors comprises a thin film transistor (TFT) (Col. 44, Lines 31-33); the drivers comprise complementary metal on semiconductor (CMOS) circuitry on silicon or glass substrates (Col. 44, Lines 60-68, Col. 2, lines 5-20); the drivers further comprise: serial data input for receiving display data; and serial data output for sensing and testing for light intensity transmitted through each light valve (Col. 35, Lines 49-65).

The reason to combine teaching of Salerno et al. with teaching of Matthis et al. teaching of large area LCD to overcome problem of amorphous silicon TFT's lack of needed frequency response in the large area high resolution LCD display technology.

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching Salerno et al. of in teaching of Matthis et al. to able to have a large area display with active matrix or passive matrix organization, as well as TFT driver for pixels with CMOS low power technology to produce highly defined color images.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matthies et al. (US 6. 2005/0078104 A1) as applied to claims 1-3,12,13 above, and further in view of Yoshii et al. (6,147,724).

Regarding Claim 9, Matthis et al. further teaches a large area display (page 1, paragraph 2, page 3, paragraph 75, page 4, paragraphs 75,76, 78, 80, page 8, paragraph 116,120, page 9, paragraph 121,122); the connection layer comprises a first conductive layer for providing power and ground connections to driver electronics (page 9, paragraph 122) and large area LCD; liquid crystal display (page 3, paragraph 70, Lines 5-11).

However, Mathis et al. fails to recite and disclose low voltage differential signaling (LVDS) logic for data transmission.

Yoshii et al. teaches the low voltage differential signaling (LVDS) logic for data transmission (Col. 25, Lines 20-52) and large area portable LCD; liquid crystal display (Col. 8, Lines 31-36).

The reason to combine teaching of Yoshii et al. with teaching of Matthis et al. teaching of large area LCD to reduce EMI, better ESD tolerance and noise tolerance for high speed serial data transfer in the large area high resolution LCD display technology.

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching Yoshii et al. of in teaching of Matthis et al. to able to have a highly defined color images large area display with active matrix or passive matrix organization, as well as TFT driver for pixels with LVDS technology serially receiving high speed data with reduce EMI, better ESD tolerance and noise tolerance.

7. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matthies et al. (US 2005/0078104 A1) as applied to claims 1-3,12,13 above, and further in view of Albert et al. (US 2005/0007336 A1).

Regarding Claim 11, Mathis et al. teaches a large area display (page 1, paragraph 2, page 3, paragraph 75, page 4, paragraphs 75,76, 78, 80, page 8, paragraph 116,120, page 9, paragraph 121,122); the connection layer comprises a first conductive layer for providing power and ground connections to driver electronics (page 9, paragraph 122) and large area bi-stable (electrophoretic) display (page 3, paragraph 70, Lines 5-11).

However, Mathis et al. fails to recite and disclose the drivers comprise complementary metal on semiconductor (CMOS) circuitry on plastic substrates.

Albert et al. teaches the drivers comprise complementary metal on semiconductor (CMOS) (page 10, paragraph 102, Lines 1-4) circuitry on plastic substrates (page 4, paragraph 43, Lines 6-11) for a large area bi-stable (electrophoretic) display (page 9, paragraph 93, Lines 1-4).

The reason to combine teaching of Albert et al. with Mathis et al. teaching of bi-stable (electrophoretic) display to be able to bend or roll a portable large area display.

Thus it is obvious to one in the ordinary skill in the art at the time of invention was made to incorporate teaching Salerno et al. of in teaching of Mathis et al. to able to have a large area display with organized, on plastic substrate with CMOS low power driver technology to produce a flexible large area display.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matthies et al. (6,498,592) Tiled electronic display structure.

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Prabodh M. Dharia whose telephone number is 571-272-7668. The examiner can normally be reached on M-F 8AM to 5PM.
- 10. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Art Unit: 2629

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Prabodh Dharia

(Partial Signatory authority Program)

AU2629

July 28, 2006